

# M3

## Passive Column Array



- Variable Beam Shaping
- Tuned Dipolar Technology
- Simple and Discreet Install
- Vocal and Music Selector
- 100V - 40W Transformer (optional)

### OVERVIEW

The MATRIX passive column arrays are composed of closely-spaced state of the art, 3" neodymium transducers housed in a stylish and yet sturdy aluminum/wood chassis for excellent Architectural Integration.

These speaker arrays have been developed in order to offer the highest intelligibility at high SPL and wider frequency response while providing constant beam-width over a user selectable vertical coverage. This accurate beam control extends up to 10kHz, well beyond the benchmark of 4kHz of traditional single-driver loudspeakers.

To better control the lower frequencies, the Tuned Dipolar Technology was developed by NEXT-proaudio engineers to provide much more consistent low frequency pattern control than other similar size systems.

A user selectable Music / Vocal mode switch is incorporated to allow quick and easy system optimization. Music mode provides a flat, balanced frequency response, while Vocal mode adds a mid-range presence for enhanced speech intelligibility.

NEXT MATRIX column arrays are able to focus the acoustical energy where it is needed, the listening area, leading to significant improvements to speech intelligibility and musical clarity even in critical acoustic environments.

For even greater versatility, the vertical dispersion pattern can be switched for Wide or Narrow coverage. Small conventional column loudspeakers arrays provide no significant vertical directivity control at lower frequencies due to their physical size.

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This can be useful in reducing the stimulation of resonant room modes at low frequencies.

The heart of the NEXT MATRIX column arrays is the internal processing board. This proprietary special circuitry takes care of the array optimization and allows the user to easily adjust the system behavior to meet the application requirements.

For an architectural integrated installation, a 16mm cavity in the back of the speaker provides ample space for hidden speaker wiring, even when the speaker is mounted flat against a wall.

Removable Input screw connector offers reliable, easier and more efficient wiring. A variety of accessories is available to provide linking, hanging, and wall or pole mounting.

For high-impedance (100V) operation, an optional multi tap transformer is available.

TECHNICAL SPECIFICATIONS

Technical Data	
Speaker Type:	Tuned Dipolar, Variable Beam Straight Line Array
Acoustical Data	
Sensitivity (1W@1m):	96dB/93dB
Frequency Response (-10dB):	140Hz - 20kHz
Equalizer Optimization Mode:	Vocal or Music (User Selectable)
Horizontal Coverage:	90° (+/-20° 1.5-5kHz)
Vertical Coverage:	40° (+/-10° 2-16kHz) / 15° (+/-10° 3-16kHz)
Calculated Max. SPL Vocal (Cont/Peak):	118.6dB/121.6dB
Calculated Max. SPL Music (Cont/Peak):	115.6dB/118.6dB
Drivers	
Full Range:	3 x 3" (70mm)/0.75" (20mm) VC, custom neodymium speaker
Electrical Data	
Program/Peak Power:	180W
Nominal Impedance:	8
Recommended Amplifier:	MA900
Connectors:	4 Pins Screw Connector (IN/OUT)
Recommended Subwoofer:	K12s, K12sA, HFA115s
Enclosure	
Construction:	Aluminum / Wood / Steel / 3D Fabric
Dimensions (WxHxD):	108 x 299 x 153mm
Net Weight:	2.6kg